

# Print Protection Data

The following diagram shows the ADAPLP syntax for specifying sequential intermediate (IPLOGPRI), multiple (PLOG..) or sequential (SPLOG..) protection logs, or Work printing:

```

ADAPLP { IPLOGPRI | PLOGPRI | SPLOGPRI | WORKPRI }
    [ TYPE = type
      FILE = file-number [ ISN = isn ]
      RABN = data-storage-rabn
    ]
    [ DEVICE = { multiple-PLOG-device-type | ADARUN-device } ]
    [ LAYOUT = { 1 | 2 | 3 } ]
    [ NOUSERABEND ]
    [ NUMBER = { 1 | n } ]
    [ PRINT ]
    [ SKIPRABN = { block-count | 0 } ]
    [ STOPRABN = block-count ]

```

where *type* is one of the following:

```

    [ { ALL
      ASSO
      DATA
    ] [ , FILE = file-number ] [ ISN = isn ]

    [ { ALL
      DATA
    ] [ RABN = data-storage-rabn ]

    [ { C1
      C5
      ET
      EEKZ
      SAVO
      VEKZ
    ] REPR [ , FILE = file-number ]

```

The IPLOGPRI function is used to print the sequential intermediate datasets created from the PLOG merge process. Input to ADAPLP IPLOGPRI must be a MERGINTI/MERGINTO dataset created by the ADARES utility and is specified in the DDPLOG DD JCL statement. Operation is similar to the SPLOGPRI function.

This chapter covers the following topics:

- Optional Parameters and Subparameters
  - Examples
- 

## Optional Parameters and Subparameters

### DEVICE: Device Type

DEVICE specifies device type on which the multiple protection dataset to be printed is contained. This parameter is required only if the device type is different from the standard ADARUN device.

### FILE: File for Which Data is to Be Printed

The FILE parameter can be used to limit printing to those protection records containing information about the specified Adabas file.

The FILE parameter cannot be specified with the RABN parameter, or when TYPE=C1, C5, ET, EEKZ, SAVO, or VEKZ is specified. Do not specify ISN with the RABN parameter.

### ISN: ISN for Which Data is to Be Printed

This parameter may be used to limit printing to the protection record identified by the specified ISN. The ISN parameter cannot be specified when the RABN parameter is specified, nor when TYPE=C1, C5, ET, EEKZ, SAVO, or VEKZ is specified.

### LAYOUT: Print Format

Controls the output format of the protection log record requested by the PRINT parameter. Specify either layout 1 (the default), 2, or 3:

#### LAYOUT=1 (the Default)

EBCDIC		HEXADECIMAL	OFFSET
↓		↓	↓
* I 1 SYN*		0025000000BC9059C4DF1CD05E2E8D5	0000
*5A ADA003 *		F5C10204020307C1C4C1F0F0F3020206	0010
*GAOS1 / *		C7C1F0E2F10062006100000003000440	0020

#### LAYOUT=2/3

OFFSET	HEXADECIMAL	EBCDIC			
0000	00250000000BC9059C4DF1CD05E2E8D5	*	I	1	SYN*
0010	F5C10204020307C1C4C1F0F0F3020206	*5A	ADA003		*
0020	C7C1F0E2F10062006100000003000440	*GAOS1	/		*

LAYOUT=3 presents the same format as LAYOUT=2, and also includes an explanation of each PLOG record type.

### **NOUSERABEND: Termination without ABEND**

When an error is encountered while the function is running, the utility prints an error message and terminates with user ABEND 34 (with a dump) or user ABEND 35 (without a dump).

If NOUSERABEND is specified, the utility will *not* ABEND after printing the error message. Instead, the message "utility TERMINATED DUE TO ERROR CONDITION" is displayed and the utility terminates with condition code 20.

### **NUMBER: Multiple Protection Log Dataset Number**

NUMBER specifies the one of multiple (two through eight) protection log (PLOG) datasets to be printed. Specifying "2" selects the DD/PLOGR2 dataset; specifying "3" selects the DD/PLOGR3 dataset, etc. The default of "1" selects DD/PLOGR1.

### **PRINT: Print Entire Data Protection Record**

The PRINT parameter prints the entire data protection log record. If this parameter is omitted, only the protection log record header is printed.

### **RABN: Print Only Updates for the Specified Data Storage Block**

The RABN parameter can be used to track all updates to a particular Data Storage block that might be in error.

The parameter limits printing to the protection records that describe the before and after images of Data Storage records that have been removed from, updated in, or added to the specified Data Storage block.

The RABN parameter can be specified for TYPE=ALL (the default) or TYPE=DATA functions; that is, those that select data storage protection records.

### **SKIPRABN: Number of Blocks to Be Skipped**

SKIPRABN specifies the number of blocks to be skipped before printing starts. Counting for the number of blocks to be printed (see STOPRABN parameter) begins after the number of blocks specified with this parameter have been skipped.

### **STOPRABN: Number of Blocks to Be Printed**

STOPRABN limits the number of blocks to be printed. If this parameter is omitted, all blocks up to the end of the protection log are printed. In addition to the RABN count specified by STOPRABN, RABN 1 is also printed; therefore, the total number of printed RABNs is always one more than the value specified by STOPRABN.

### TYPE: Type of Record to Be Printed

TYPE specifies the type of protection records to be selected for printing. The following values may be specified:

ALL	all protection records-the default
ASSO	Associator protection records
DATA	Data Storage protection records
C1	records resulting from Adabas C1 commands
C5	records resulting from Adabas C5 commands
EEKZx	records written at completion of a nucleus buffer flush
ET	records resulting from Adabas ET commands
REPR	Work dataset records used by autorestart to repair the index
SAVO	online SAVE database/file records
VEKZ	records written at completion of update commands

#### Note:

The number of protection records is reduced further by specifying the FILE, ISN, or RABN parameters.

## Examples

### Example 1:

```
ADAPLP WORKPRI PRINT,TYPE=ALL,STOPRABN=40
```

41 data protection records from the Adabas Work are to be printed.

### Example 2:

```
ADAPLP WORKPRI PRINT,TYPE=ASSO,STOPRABN=10
```

11 Associator data protection blocks from the Adabas Work are to be printed.

### Example 3:

```
ADAPLP PLOGPRI PRINT
```

All data protection blocks contained on one of multiple protection log datasets are to be printed.